

PHYSICAL PROPERTY MODIFICATION OF NANOTUBES

Abstract of the Disclosure

A method of modifying a physical property of a nanotube comprises subjecting a nanotube having a defined lattice structure orientation

- 5 to stress conditions sufficient to disrupt the lattice structure and form a dipole of dislocation cores therein, and wherein the dipole of dislocation cores split and propagate in the nanotube in a manner such that the dipole of dislocation cores are separated by at least one domain of modified structure, and wherein the physical property of the nanotube are altered.